



DC-T6

Color Doppler Ultrasound System

Datasheet

mindray
healthcare within reach

1 System Overview

1.1 Application

- Abdomen
- Obstetrics
- Gynecology
- Cardiology
- Small parts
- Urology
- Vascular
- Pediatrics
- EM (Emergency)
- Others

1.2 Transducer types

- Curved array transducer
- Linear array transducer
- Phased array transducer

1.3 Imaging modes

- B-Mode
- THI (Tissue Harmonic Imaging)
- PSHI (Phase Shift Harmonic Imaging)
- M-Mode/Color M-mode
- Free Xros M (Anatomical M-mode)
- Free Xros CM (Curved Anatomical M-mode)
- Color Doppler Imaging
- Power Doppler Imaging/Directional PDI
- Pulsed Wave Doppler
- Continuous Wave Doppler
- TDI
- Smart 3D (Freehand 3D)
- Static 3D
- 4D
- Stress Echo
- iScape View (Panoramic Imaging)

1.4 Standard features

- B-Mode
- THI and PSH
- M-Mode
- Color Doppler Imaging
- Power Doppler Imaging and Directional PDI
- Pulsed Wave Doppler
- iBeam (Spatial Compounding Imaging)
- iClear (Speckle Suppression Imaging)
- iTouch (Auto Optimization)
- Zoom/iZoom (Full Screen Zoom)

- FCI (Frequency Compounding Imaging)
- B steer
- ExFOV Imaging: Extend imaging for convex transducer
- Trapezoid imaging for linear transducer
- 4 active probe ports
- 320G hard drive
- DVD R/W driver
- 4-USB

1.5 Optional features

- Continuous Wave Doppler
- Free Xros M
- Free Xros CM
- iScape View
- Smart 3D
- 4D
 - iPage
 - STIC
- IMT
- Stress Echo
- TDI (Include TVI, TVD, TVM, TEI)
- TDI QA (TDI Quantitative Analysis)
- iNeedle(7L4A, L14-6N, L14-6 support)
- DICOM
- Clinical Measurement Package

1.6 Language support

- Software: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish
- Keyboard input: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Icelandic, Norwegian, Swedish, Finnish, Turkish, Danish
- Control panel overlay: Chinese, Italian, Portuguese, Spanish, German, Russian, French, Czech, Polish
- User manual: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian

2 Physical Specification

2.1 Dimension and weight

- Height: 1290-1570mm
- Width: 460mm

- Depth: 730mm
- Weight: approx. 95kg

2.2 Monitor

- 15-inch high resolution color LCD monitor(17-inch LCD optional)
- Resolution: 1024x768
- Viewing angle: 170 degree
- Digital on-screen display of brightness and contrast controls
- Auto-calibrate brightness after system boot-up each time
- Independent tilt of 30 degrees up, 30 degrees down and swivel of -90 to +90 degrees.

2.3 Audio speakers

- Stereo audio speakers

2.4 Multi-directional articulating monitor arm for better user-friendly experience

- Upper arm:
 - Rotate: ± 90 degrees (from center)
 - Up: 140mm
- Lower arm:
 - Rotate: ± 90 degrees (from center)

2.5 Wheels

- Diameter: 125mm
- Front castor (2 ea): total lock and break
- Rear castor (2 ea): total lock and break

2.6 Probe port and holder

- Probe ports: 4 active ports, plus 1 pencil probe port
- Probe holder: 4

2.7 Electrical power

- Voltage: 100-127V~, or 220-240V~
- Frequency: 50/60 Hz
- Power consumption: Max. 600 VA
- Circuit breaker: 240V~, 13A

2.8 Operating Environment

- Ambient temperature: 0-40 °C
- Relative humidity: 30%-95% (no condensation)
- Atmospheric pressure:
700hPa-1060hPa

2.9 Storage & Transportation Environment

- Ambient temperature: -20~55 °C
- Relative humidity: 30%-95% (no

- condensation)
- Atmospheric pressure:
700hPa-1060hPa

3 User Interface

3.1 Control panel

- User-centric control panel with home-based layout favors easy access to keys
- Backlit keys ensure accurate work in the dark room
- Programmable keys available for user-defined functions
- 8-segment TGC control
- Full-sized, backlit QWERTY keyboard for text input, function keys and system programming
- Adjustable key volume and trackball speed meet different needs
- Dedicated palm rest design to help reduce user repetitive stress injury
- Independent rotation and up/down of control panel facilitates optimal positioning
 - rotate: ± 45 degrees (from center)
 - down/up: 780-970mm (190 mm range)

3.2 System boot-up

- Boot-up from complete shut-down in less than 61-68 sec(Depends on the Configuration)
- Boot-up from standby mode in less than 15 sec
- Shut-down in less than 33 sec

3.3 Comments

- Supports text input and arrow
- Adjustable text size and arrow size
- Supports home position
- Covers various application
- User customizable

3.4 Bodymark

- More than 134 bodymarks for versatile application
- User customizable

3.5 Screen information*

- Common info:

- Mindray logo
- Hospital name
- Exam date
- Exam time
- Acoustic output indices
- Mechanical index
- ID, Last name, First Name, Middle initial, Gender, Age, DOB(Date of birth)
- Probe model
- ECG icon (when ECG connected),
- Operator
- TGC Curve
- Focus position
- Thumbnail
- Machine model
- Imaging parameters
- Help guidance

*Not all items are listed in this part, detail info please refer to user manual

- Acoustic output power: 7%-100%
- TGC: 8 pods on control panel
- Dynamic range: 30-160, 5/step
- Gain: 0-100, 1/step
- Focus number: 1-4 (depend on transducer)
- Focus position: Max 16 steps, adjustable
- FOV: 4 steps, W/M1/M2/N
- Line density: L/M/H/UH
- Persistence: 7 steps
- Horizontal Scale: on/off
- L/R flip and U/D flip: on/off
- Rotation: 0, 90, 180, 270
- TSI: General/Muscle/Fluid/Fat
- Gray Map: 8 types
- Colorize: On/Off
- Colorize map: off; 10 types

4.3 THI and PSHI

- Available on all types of transducer
- Patent PSH technology, obtains purer harmonic, better contrast resolution, higher SNR, exceptional high frequency harmonic
- iClear available

4.4 M-mode

- Display formats: V1:1, V1:2, FULL , L/R(V: vertical)
- Acoustic output power: 7%-100%
- Dynamic range: 30-160, 5/step
- Gain: 0-100, 2/step
- M sweep speeds: 6 steps
- M soften: 5 steps, 0-4
- Colorize: On/Off
- Colorize map: off; 10 types
- Gray Map: 8 types
- Edge enhancement: 4 steps, 0-3

4.5 Color M-mode

- Display formats: V1:1, V1:2, FULL , L/R(V: vertical)
- Acoustic output power: 7%-100%
- Dynamic range: 30-160, 5/step
- Gain: 0-100, 2/step
- M sweep speeds: 6 steps
- M soften: 5 steps, 0-4

4 Imaging Parameters

4.1 Overview

- Digital Multi-stage beamformer
- Up to 2560 channels
- Octal-beam forming

4.2 B-mode

- Display formats: Single(B), Dual(B+B), Quad(4B)
- iClear: Off; 4 steps
- iBeam: On/Off; max. 5 angles
- iTouch: Auto optimization for B/PW/ Color mode
- FCI: Frequency compounded imaging
- Dual Live: side by side live display
- B steer: available on linear transducers
- ExFOV: extended FOV available on convex and volume transducers
- Trapezoid for linear transducer
- Depth: 1.8-38.8cm , 0.924-1.848cm/step (depend on transducer)
- Frame rate (max): 643 f/s

- Colorize: On/Off
- Colorize map: off; 10 types
- Gray Map: 8 types
- Edge enhancement: 4 steps, 0-3
- Acoustic output power: 7%-100%
- Gain: 0-100, 2/step
- Scale: 30 steps
- Baseline: 9 steps
- Wall filter: 8 steps, 0-7
- Smooth: 5 steps, 0-4
- Priority: 0%-100%, 10%/step
- Color map: 21 types
- Persistence: 5 steps, 0-4

4.6 Free Xros M (option)

- Display formats: V1:1, V1:2, FULL , L/R (V: vertical)
- Up to 3 lines
- Display all lines
- Sweep speeds: 6 steps
- Colorize: On/Off
- Colorize map: off, 10 types
- Gray Map: 8 types

4.7 Color Free Xros M(included in FreeXrosM option)

- Display formats: V1:1, V1:2, FULL , L/R (V: vertical)
- Up to 3 lines
- Display all lines
- Sweep speeds: 6 steps
- Colorize: On/Off
- Colorize map: off, 10 types
- Gray Map: 8 types
- Gain: 0-100, 2/step
- Scale: 30 steps
- Baseline: 9 steps
- Wall filter: 8 steps, 0-7
- Smooth: 5 steps, 0-4
- Priority: 0%-100%, 10%/step
- Color map: 21 types

Persistence: 5 steps, 0-4

4.8 Free Xros CM (option)

- Display formats: V1:1, V1:2, FULL , L/R (V: vertical)
- Gain: 0-100, 2/step
- Sweep speeds: 6 steps

- Colorize: On/Off
- Colorize map: off; 10 types
- Gray Map: 8 types
- Edit, undo, delete function for curved line

4.9 Color Doppler Imaging

- Dual live
- Max velocity: 226cm/s
- Steer: max. 20 degrees (linear transducer)
- Max frame rate: 368 f/s
- Acoustic output power: 7%-100%
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Scale: 30 steps
- Baseline: 9 steps
- Wall filter: 8 steps, 0-7
- PRF: max. 14.3kHz
- Packet size: 4 steps, 0-3
- Flow state: L/M/H
- Smooth: 5 steps, 0-4
- B/C Align: on/off
- Priority: 0%-100%, 10%/step
- Color map: 21 types

4.10 Power Doppler Imaging/ Directional power doppler

- Dual live
- Acoustic output power: 7%-100%
- Dynamic range: 10-70, 5/step
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Steer: max. 20 degrees (linear transducers)
- Scale: 30 steps
- Wall filter: 8 steps, 0-7
- PRF: Max. 14.3kHz
- Packet size: 4 steps, 0-3
- Flow state: L/M/H
- Smooth: 5 steps, 0-4
- B/C Align: on/off
- Priority: 0%-100%, 10%/step

- Color map: 4 types
- Directional color map: 4 types
- Persistence: 5 steps, 0-4
- Line density: L/M/H/UH

4.11 PW/CW-Mode

- Display formats: V1:1, V1:2, FULL, L/R(V: vertical)
- PW velocity: max. 924cm/s
- PW velocity: min. 4.1cm/s
- CW velocity: max. 56.0m/s
- Sample volume size: 0.5-20mm (PW only), 12 steps
- Sample gate depth: adjustable
- Scale: max. 4.62m/s(PW), 28m/s(CW)
- Baseline: 9 steps
- PW Steer: max. 20 degrees (linear transducer)
- Audio: 0%-100%, 2%/step
- PW PRF: max. 24kHz
- Gain: 0%-100%
- Dynamic range: 24-72, 2/step
- Sweep speed: 6 steps
- Wall filter: 7 steps, 0-6
- Invert: on/off
- Angle: -80~80 degrees, 1/step
- Quick angle: 0, -60, 60 degrees
- Gray map: 8 types
- Colorize map: Off; 10 types
- Time/frequency resolution: 4 steps,0-3
- Auto calc: on/off
- Auto Spectrum Calculation: Max.19 parameters
- Auto calc cycle: 1, 2, 3, 4, 5
- Trace area: Above, Below, All
- Duplex/Triplex: On/Off

4.12 Tissue Velocity Imaging/Tissue Energy Imaging (included in TDI option)

- Available on phased array transducer
- Dual live: side by side displays B and B+TVI
- Max frame rate: 428 f/s
- PRF: max. 12.2kHz
- Acoustic output power: 7%-100%
- Gain: 0-100
- Dynamic range: 10-70, 5/step (TEI

- only)
- ROI size/position: adjustable
- Scale: max. 30 steps
- Baseline: 17steps (TVI only)
- Wall filter: 8 steps, 0-7
- Packet size: 4 steps, 0-3
- Tissue state: L/M/H
- Smooth: 5 steps, 0-4
- B/C Align: on/off
- Priority: 0%-100%, 10%/step
- Color map: 11 types
- Invert: on/off (TVI only)
- Persistence: 5 steps,0-4
- Line density: L/M/H/UH

4.13 Tissue Velocity Doppler(included in TDI option)

- Available on phased array transducer
- Display formats: V1:1, V1:2, FULL, L/R(V: vertical)
- Sample volume size: 0.5-20mm , 12 steps
- Sample gate depth: adjustable
- Scale: max. 4.62m/s
- Baseline: 9 steps
- Volume: 0%-100%, 2%/step
- PRF: max. 24kHz
- Gain: 0%-100%
- Dynamic range: 24-72, 2/step
- Sweep speed: 6 steps
- Wall filter: 7 steps,0-6
- Invert: on/off
- Angle: -80-80 degrees, 1/step
- Quick angle: 0, -60, 60 degrees
- Gray map: 8 types
- Colorize: On/Off
- Colorize map: Off; 8 types
- Time/frequency resolution: 4 steps,0-3
- Duplex/Triplex: On/Off

4.14 Tissue Velocity Motion (included in TDI option)

- Display formats: V1:1, V1:2, FULL, L/R (V: vertical)
- Acoustic output power: 7%-100%
- Dynamic range: 30-160, 5/step
- Gain: 0-100

- M sweep speeds: 6 steps
- M soften: 5 steps, 0-4
- Gray Map: 8 types
- Edge enhancement: 4 steps, 0-3

4.15 Smart 3D (option)

- Smart 3D
 - Disp Format: Quad,Dual,Single
 - Render : Surface, Min, Max, X-ray
 - Inversion: on/off
 - Reset ROI
 - Reset Ori: reset orientation
 - Reset All
 - Auto Rot. : Auto rotation
 - Edit
 - Direction: D/U, U/D, B/F, F/B, L/R, R/L (U:up, D:down, B:back, F:front)
 - MPR Line: Entire, Partial, Off
 - Slice: Move Slice
 - Accept VOI: On/Off
 - Quick Rot.: 0, 90, 180, 270
 - Colorize: On/Off
 - Colorize map: Off, 5 types
 - Angle: 10-80 degrees, 2-degree/step
 - Contrast: 0%-100%, 2%/step
 - Brightness: 0%-100%, 2%/step(only on VR)
 - Current Window: A, B, C, 3D
 - Method: Fan, Linear
 - Threshold: 0%-100%, 1%/step
 - Smooth: 21 steps, 0-20
 - Transparency: 0%-100%, 5%/step
 - Reset Curve
 - iPage: On/Off
- Auto Rot.
 - Direction: Left/Right, Up/Down
 - Set Start Pos
 - Set End Pos
 - Repeat Mode: SE/ES, SE/SE(SE: Start to End, ES: End to Start)
 - L/R Rot. : -360~360
 - U/D Rot: -360~360
 - Step: 1° ,2° ,3° ,5° ,7° ,10° ,15°
 - Speed: 6 types
 - Auto Rot. : On/Off
 - Save AVI to USB

- Edit:

- Disp Format: Single, Dual, Quad
- X Rotation
- Y Rotation
- Z Rotation
- Edit Depth: 0%~100%
- Full Depth: On/Off
- Tool: Polygon.Out, Polygon.In, Contour.In, Contour.Out, Rect.In, Rect.Out
- Undo
- Undo all
- Redo
- Done

4.16 4D (option)

- Available on all volume transducers
- Static 3D, STIC and 4D
 - 4D frame rate: max. 31.5 vps
 - X Rotation
 - Y Rotation
 - Z Rotation
 - Disp Format: Single, Dual, Quad
 - Accept VOI: on/off
 - Direction: D/U, U/D, B/F, F/B, L/R, R/L (U:up, D:down, B:back, F:front)
 - Render : Surface, Min, Max, X-ray
 - Inversion: on/off
 - MPR Line: Entire, Partial, Off
 - Current Window: A, B, C, 3D
 - Quick Rot.: 0, 90, 180, 270
 - Threshold: 0%-100%, 1%/step
 - Contrast: 0%-100%, 2%/step
 - Brightness: 0%-100%, 2%/step(only on VR)
 - Smooth: 21 steps, 0-20
 - Transparency: 0%-100%, 5%/step
 - Colorize: On/Off
 - Colorize map: Off, 5 types
 - Angle: 10-70 degrees, 5/step
 - Quality: low1, low2, mid, high1, high2
 - Reset Ori
 - Reset Curve
 - Reset All
 - iPage: On/Off
 - Slice: Move Slice

- Auto Rot.
- Edit
- Auto rotation
 - Direction: Left/Right, Up/Down
 - Set Start Pos
 - Set End Pos
 - Repeat Mode: SE/ES, SE/SE(SE: Start to End, ES: End to Start)
 - L/R Rot. : -360~360
 - U/D Rot: -360~360
 - Step: 1° ,2° ,3° ,5° ,7° ,10° ,15°
 - Speed: 6 types
 - Auto Rot. : On/Off
 - Save AVI to USB
- Edit:
 - Disp Format: Single, Dual, Quad
 - X Rotation
 - Y Rotation
 - Z Rotation
 - Edit Depth: 0%~100%
 - Full Depth: On/Off
 - Tool: Polygon.Out, Polygon.In, Contour.In, Contour.Out, Rect.In, Rect.Out
 - Undo
 - Undo all
 - Redo
 - Done
- iPage:
 - X Rotation
 - Y Rotation
 - Z Rotation
 - Spacing: 0.5-10mm, 0.1mm/Step
 - Slices Number: 3, 5, 7, 9
 - Disp. Format: 1*1, 2*2, 3*3, 4*4, 5*5
 - Line Direction: V, H
 - Ref. Plane: A Plane, B Plane, C Plane
 - Select Slice: -1, 0, 1
 - Adjust Slice
 - Reset Ori
 - Gray Map
 - Colorize Map: Off, 1-10
 - Ref. Img: On/Off

4.17 iScape View (option)

- Available on all transducers

- Acquisition method: B
- Supports speed indicator
- Actual size
- Fit size
- Ruler: On/Off
- Colorize: On/Off
- Colorize map: 11 types, 0-10
- Rotation: 0~355 degrees, 5/step
- Review Cine
- Save Cine

4.18 iNeedle(option)

- iNeedle: On/Off
- B/iNeedle: On/Off
- Needle Steer: 20°, 30°, 40°, 50°, -50°, -40°, -30°, -20°, 2%step

4.19 Stress Echo

- Fully integrated stress echo module
- 14 fixed protocols
- Up to 12-stage and 6-view
- Save up to 20 loops or 2 minutes each stage
- ASE16 and ASE 17 wall motion scoring
- User-defined protocols
- Suspend/resume

4.20 Zoom

- Zoom:
 - Spot zoom (write zoom) 1.0-10.0x,
 - Pan zoom (read zoom) 1.0-10.0x
- iZoom: convertible 3 steps ;normal image, zoom standard area, zoom only image area

4.21 QSave

- In Probe & Exam dialogue
- Quick save image, measurement, comment and bodymark parameters after adjustment done
- Support Save, Save as, Restore

4.22 TDI QA (option)

- Dedicated quantification tool for TDI velocity analysis
- Freehand ROI: manually deploy ROI on the image
- Up to 8 ROIs
- Delete all
- Delete current

- ROI tracking: reduce influence caused by myocardial movement
- Std.Height: 1.5-50 mm
- Std.Width: 1.5-50 mm
- Std.Angle: -89-90 degrees
- Export: export current data as CSV format file

- Ration (D)
- Ratio (A)
- B-Hist
- B-Profile
- Color Vel
- VF Area
- M-mode
 - HR
 - Slope
 - Distance
 - Time
 - Velocity
- Doppler mode
 - D Velocity
 - HR
 - Time
 - Acceleration
 - D Trace
 - PS/ED
 - Vas Area
- Automatic Doppler Spectrum Analysis
 - Heart cycle pre-settable (1, 2, 3, 4, 5)
 - Automatic real-time and retrospective tracing
 - User configurable display of items
 - Support PI, RI, TAMAX, TAMEAN, Volume Flow calculations
 - Appropriate factory setting according to applications

6.2 Clinical option measurement package

- Abdominal
 - Liver
 - Renal L (Renal Length)
 - Renal H (Renal Height)
 - Renal W (Renal Width)
 - Cortex (Renal Cortical Thickness)
 - Adrenal L (Adrenal Length)
 - Adrenal H (Adrenal Height)
 - Adrenal W (Adrenal Width)
 - CBD (Common bile duct)
 - Portal V Diam (Portal Vein Diameter)
 - CHD (Common hepatic duct)
 - GB L (Gallbladder Length)
 - GB H (Gallbladder Height)
 - GB wall th (Gallbladder wall)

5 Cine Review

5.1 Cine review

- Available in all modes
- Frame by frame manual cineloop review or auto playback with variable speed
- Independent cine review in 2D Dual and Quad mode one by one
- Maximum cine memory is up to 3407 frames or 131.1 s(depends on the mode)
- Maximum 4D cine memory is around 3956 volumes
- Retrospective and prospective storage are available and length is pre-settable
- Frame compare: displays one cine in dual format and allows frame by frame compare side by side
- Cine compare: compare cines which are saved in same imaging mode
- Jump to first and jump to last: one stroke go to first or last frame in the cine

6 Measurement/Analysis and

Report*

6.1 Generic measurements

- 2D-mode
 - Depth
 - Distance
 - Angle
 - Area
 - Volume
 - Cross
 - Parallel
 - T Length

- thickness)
- Panc duct (Pancreatic duct)
- Panc head (Pancreatic head)
- Panc body (Pancreatic body)
- Panc tail (Pancreatic tail)
- Spleen
- Aorta Diam (Aorta Diameter)
- Aorta Bif
- Iliac Diam
- Pre-BL L (Pre-void Bladder Length)
- Pre-BL H (Pre-void Bladder Height)
- Pre-BL W (Pre-void Bladder Width)
- Post-BL L (Post-void Bladder Length)
- Post-BL H (Post-void Bladder Height)
- Post-BL W (Post-void Bladder Width)
- Renal Vol (Renal Volume)
- Pre-BL Vol (Pre-void Bladder Volume)
- Post-BL Vol (Post-void Bladder Volume)
- Mictur.Vol (Micturated Volume)
- Ren A Org (Renal Artery Origin)
- Arcuate A (Arcuate Artery)
- Segment A (Segmental Artery)
- Interlobar A (Interlobar Artery)
- Renal A (Renal Artery)
- M Renal A (Main Renal Artery)
- Renal V (Renal Vein)
- Aorta
- Celiac Axis
- SMA (Superior Mesenteric Artery)
- C Hepatic A (Common Hepatic Artery)
- Hepatic A (Hepatic Artery)
- Splenic A (Splenic Artery)
- IVC (Inferior Vena Cava)
- Portal V (Portal Vein)
- M Portal V (M Portal Vein)
- Hepatic V (Hepatic Vein)
- M Hepatic V (Middle Hepatic Vein)
- Splenic V (Splenic Vein)
- SMV (Superior Mesenteric Vein)
- Gynecology
 - UT L
 - UT H
 - UT W
 - Cervix L
 - Cervix H
 - Cervix W
 - Endo
 - Ovary L
 - Ovary H
 - Ovary W
 - Follicle1-16 L
 - Follicle1-16 W
 - Follicle1-16 H
 - Ovary Vol
 - UT Vol
 - Uterus Body
 - UT-L/ CX-L
 - Uterus (Length, height and width of uterus, endometrium thickness)
 - Uterine Cervix (Length, height and width of uterine cervix)
 - Ovary (Length, height and width of ovary)
 - Follicle 1-16 (Length and width of follicle 1-16)
- Obstetrics
 - GS (Gestational Sac Diameter)
 - YS (Yolk Sac)
 - CRL (Crown Rump Length)
 - NT (Nuchal Translucency)
 - BPD (Biparietal Diameter)
 - OFD (Occipital Frontal Diameter)
 - HC (Head Circumference)
 - AC (Abdominal Circumference)
 - FL (Femur Length)
 - TAD (Abdominal Transversal Diameter)
 - APAD (Anteroposterior Abdominal Diameter)
 - TCD (Cerebellum Diameter)
 - Cist Magna (Cist Magna)
 - LVW (Lateral Ventricle Width)
 - HW (Hemisphere Width)
 - OOD (Outer Orbital Diameter)
 - IOD (Inter Orbital Diameter)
 - HUM (Humerus Length)
 - Ulna (Ulna Length)
 - RAD (Radius Length)

- Tibia (Tibia Length)
- FIB (Fibula Length)
- CLAV (Clavicle Length)
- Vertebrae (Length of Vertebrae)
- MP (Middle Phalanx Length)
- Foot (Foot Length)
- Ear (Ear Length)
- APTD (Anteroposterior trunk diameter)
- TTD (Transverse trunk diameter)
- FTA (Fetal Trunk Cross-sectional Area)
- THD (Thoracic Diameter)
- HrtC (Heart Circumference)
- TC (Thoracic circumference)
- Umb VD (Umbilical Vein Diameter)
- F-kidney (Fetal kidney Length)
- Mat Kidney (Matrix Kidney Length)
- Cervix L (Cervical Length)
- AF (Amniotic Fluid)
- NF (Nuchal Fold)
- Orbit (Orbit)
- PL Thickness (Placental Thickness)
- Sac Diam1 (Gestational Sac Diameter 1)
- Sac Diam2 (Gestational Sac Diameter 2)
- Sac Diam3 (Gestational Sac Diameter 3)
- AF1 (Amniotic Fluid 1)
- AF2 (Amniotic Fluid 2)
- AF3 (Amniotic Fluid 3)
- AF4 (Amniotic Fluid 4)
- LVIDd (Left Ventricular Internal Diameter at End-diastole)
- LVIDs (Left Ventricular Internal Diameter at End-systole)
- LV Diam (Left Ventricular Diameter)
- LA Diam (Left Atrium Diameter)
- RVIDd (Right Ventricular Internal Diameter at End-diastole)
- RVIDs (Right Ventricular Internal Diameter at End-systole)
- RV Diam (Right Ventricular Diameter)
- RA Diam (Right Atrium Diameter)
- IVSd (Interventricular Septal Thickness at End-diastole)
- IVSs (Interventricular Septal Thickness at End-systole)
- IVS (Interventricular Septal Thickness)
- LV Area (Left Ventricular Area)
- LA Area (Left Atrium Area)
- RV Area (Right Ventricular Area)
- RA Area (Right Atrium Area)
- Ao Diam (Aorta Diameter)
- MPA Diam (Main Pulmonary Artery Diameter)
- LVOT Diam (Left Ventricular Outflow Tract Diameter)
- RVOT Diam (Right Ventricular Outflow Tract Diameter)
- Mean Sac Diam (Mean Gestational Sac Diameter)
- AFI
- EFW (Estimated Fetal Weight)
- EFW2 (Estimated Fetal Weight 2)
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC(c)
- HrtC/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD
- FHR (Fetal Heart Rate)
- LVIDd (Left ventricular diameter at end diastole)
- LVIDs (Left ventricular diameter at end systole)
- RVIDd (Right ventricular diameter at end diastole)
- RVIDs (Right ventricular diameter at end systole)

- IVSd (interventricular septal thickness at en diastole)
- IVSs (interventricular septal thickness at en systole)
- Umb A (Umbilical Artery)
- Duct Veno (Ductus Veno)
- Placenta A (Placenta Artery)
- MCA (Middle Cerebral Artery)
- Fetal Ao (Fetal Aorta)
- Desc Aorta (Descending Aorta)
- Ut A (Uterine Artery)
- Ovarian A (Ovarian Artery)
- FHR (Fetal Heart Rate)
- Cardiology
 - LA Diam (Left Atrium Diameter)
 - LA Major (Left Atrium major Diameter)
 - LA Minor (Left Atrium minor Diameter)
 - RA Major (Right Atrium major Diameter)
 - RA Minor (Right Atrium minor Diameter)
 - LV Major (Left Ventricular major Diameter)
 - LV Minor (Left Ventricular minor Diameter)
 - RV Major (Right Ventricular major Diameter)
 - RV Minor (Right Ventricular minor Diameter)
 - LA Area (Left Atrium area)
 - RA Area (Right Atrium area)
 - LV Area (d) (Left Ventricular area at end-diastole)
 - LV Area (s) (Left Ventricular area at end-systole)
 - RV Area (d) (Right Ventricular area at end-diastole)
 - RV Area (s) (Right Ventricular area at end-systole)
 - LVIDd (Left Ventricular Internal Diameter at end-diastole)
 - LVIDs (Left Ventricular Internal Diameter at end-systole)
 - RVDd (Right Ventricular Diameter at end-diastole)
 - RVDs (Right Ventricular Diameter at end-systole)
 - LVPWd (Left Ventricular Posterior wall thickness at end-diastole)
 - LVPWs (Left Ventricular Posterior wall thickness at end-systole)
 - RVAWd (Right Ventricular Anterior wall thickness at end-diastole)
 - RVAWs (Right Ventricular Anterior wall thickness at end-systole)
 - IVSd (Interventricular Septal thickness at end-diastole)
 - IVSs (Interventricular Septal thickness at end-systole)
 - Ao Diam (Aorta Diameter)
 - Ao Arch Diam (Aorta arch Diameter)
 - Ao Asc Diam (Ascending Aorta Diameter)
 - Ao Desc Diam (Descending Aorta Diameter)
 - Ao Isthmus (Aorta Isthmus Diameter)
 - Ao st junct (Aorta ST junct Diameter)
 - Ao Sinus Diam (Aorta Sinus Diameter)
 - Duct Art Diam (Ductus Arteriosus Diameter)
 - Pre Ductal (Previous ductal Diameter)
 - Post Ductal (Posterior ductal Diameter)
 - ACS (Aortic Valve Cusp Separation)
 - LVOT Diam (Left Ventricular Outflow Tract Diameter)
 - AV Diam (Aorta Valve Diameter)
 - AVA (Aortic Valve Area)
 - PV Diam (Pulmonary valve Diameter)
 - LPA Diam (Left pulmonary Artery Diameter)
 - RPA Diam (Right pulmonary Artery Diameter)
 - MPA Diam (Main pulmonary Artery Diameter)
 - RVOT Diam (Right Ventricular

- Outflow Tract Diameter)
- MV Diam (Mitral Valve Diameter)
- MVA (Mitral Valve area)
- MCS (Mitral Valve Cusp Separation)
- EPSS (Distance between point E and Interventricular Septum when mitral valve is fully open)
- TV Diam (Tricuspid valve Diameter)
- TVA (Tricuspid Valve Area)
- IVC Diam (Insp) (Inferior vena cava inspiration Diameter)
- IVC Diam (Expir) (Inferior vena cava expiration Diameter)
- SVC Diam (Insp) (Superior vena cava inspiration Diameter)
- SVC Diam (Expir) (Superior vena cava expiration Diameter)
- LCA (Left Coronary Artery)
- RCA (Right Coronary Artery)
- VSD Diam (Ventricular Septal defect Diameter)
- ASD Diam (Atrial Septal defect Diameter)
- PDA Diam (Patent ductus Arteriosus Diameter)
- PFO Diam (Patent Oval Foramen Diameter)
- PEd (Pericardial Effusion at diastole)
- PEs (Pericardial Effusion at systole)
- LA/Ao (Left Atrium Diameter/Aorta Diameter)
- Ao/LA (Aorta Diameter/Left Atrium Diameter)
- LA Diam (Left Atrium Diameter)
- LVIDd (Left Ventricular Internal Diameter at end-diastole)
- LVIDs (Left Ventricular Internal Diameter at end-systole)
- RVDd (Right Ventricular Diameter at end-diastole)
- RVDs (Right Ventricular Diameter at end-systole)
- LVPWd (Left Ventricular Posterior wall thickness at end-diastole)
- LVPWs (Left Ventricular Posterior wall thickness at end-systole)
- RVAWd (Right Ventricular Anterior wall thickness at end-diastole)
- RVAWs (Right Ventricular Anterior wall thickness at end-systole)
- IVSd (Interventricular Septal thickness at end-diastole)
- IVSs (Interventricular Septal thickness at end-systole)
- Ao Diam (Aorta Diameter)
- Ao Arch Diam (Aorta arch Diameter)
- Ao Asc Diam (Ascending Aorta Diameter)
- Ao Desc Diam (Descending Aorta Diameter)
- Ao Isthmus (Aorta Isthmus Diameter)
- Ao st junct (Aorta ST junct Diameter)
- Ao Sinus Diam (Aorta Sinus Diameter)
- LVOT Diam (Left Ventricular outflow tract Diameter)
- ACS (Aortic valve Cusp Separation)
- LPA Diam (Left pulmonary Artery Diameter)
- RPA Diam (Right pulmonary Artery Diameter)
- MPA Diam (Main pulmonary Artery Diameter)
- RVOT Diam (Right Ventricular outflow tract Diameter)
- MV E Amp (Amplitude of the Mitral Valve E wave)
- MV A Amp (Amplitude of the Mitral Valve A wave)
- MV E-F Slope (Mitral Valve E-F slope)
- MV D-E Slope (Mitral Valve D-E slope)
- MV DE (Amplitude of the Mitral Valve DE wave)
- MCS (Mitral Valve Cusp Separation)
- EPSS (Distance between point E and the interventricular septum)
- PEd (Pericardial effusion at diastole)
- PEs (Pericardial effusion at systole)

- LVPEP (Left Ventricular pre-ejection period)
- LVET (Left Ventricular ejection time)
- RVPEP (Right Ventricular pre-ejection period)
- RVET (Right Ventricular ejection time)
- HR (Heart Rate)
- LA/Ao (Left Atrium Diameter/Aorta Diamete)
- Ao/LA (Aorta Diameter/Left Atrium Diameter)
- MV Vmax (Mitral Valve Maximum Velocity)
- MV E Vel (Mitral Valve E-wave Velocity)
- MV A Vel (Mitral Valve A-wave Velocity)
- MV E VTI (Mitral Valve E-wave Velocity)-Time Integral
- MV A VTI (Mitral Valve A-wave Velocity)-Time Integral
- MV VTI (Mitral Valve Velocity)-Time Integral
- MV AccT (Mitral Valve Acceleration Time)
- MV DecT (Mitral Valve Deceleration Time)
- IVRT (IsoVelocity Relaxation Time)
- IVCT (IsoVelocity Compression Time)
- MV E Dur (Mitral Valve E-wave Duration)
- MV A Dur (Mitral Valve A-wave Duration)
- LVOT Vmax (Left Ventricular Outflow Tract Velocity)
- LVOT VTI (Left Ventricular Outflow Tract Velocity)-Time Integral
- LVOT AccT (Left Ventricular Outflow Tract Acceleration Time)
- AAo Vmax (Ascending Aorta Maximum Velocity)
- DAo Vmax (Descending Aorta Maximum Velocity)
- AV Vmax (Aorta Valve Maximum Velocity)
- AV VTI (Aorta Valve Velocity)-Time Integral)
- LVPEP (Left Ventricular Pre-ejection Period)
- LVET (Left Ventricular Ejection Time)
- AV AccT (Aorta Valve Acceleration Time)
- AV DecT (Aorta Valve Deceleration Time)
- RVET (Right Ventricular Ejection Time)
- RVPEP (Right Ventricular Pre-ejection Period)
- TV Vmax (Tricuspid Valve Maximum Velocity)
- TV E Vel (Tricuspid Valve E-wave Flow Velocity)
- TV A Vel (Tricuspid Valve A-wave Flow Velocity)
- TV VTI (Tricuspid Valve Velocity)-Time Integral)
- TV AccT (Tricuspid Valve Acceleration Time)
- TV DecT (Tricuspid Valve Deceleration Time)
- TV A Dur (Tricuspid Valve A-wave Duration)
- RVOT Vmax (Right Ventricular Outflow Tract Maximum Velocity)
- RVOT VTI (Right Ventricular Outflow Tract Velocity)-Time Integral)
- PV Vmax (Pulmonary Valve Maximum Velocity)
- PV VTI (Pulmonary Valve Velocity)-Time Integral)
- PV AccT (Pulmonary Valve Acceleration Time)
- MPA Vmax (Main Pulmonary Artery Maximum Velocity)
- RPA Vmax (Right Pulmonary Artery Maximum Velocity)
- LPA Vmax (Left Pulmonary Artery Maximum Velocity)
- PVein S Vel (Pulmonary Vein S-wave

- Flow Velocity)
- PVein D Vel (Pulmonary Vein D-wave Flow Velocity)
- PVein A Vel (Pulmonary Vein A-wave Flow Velocity)
- PVein A Dur (Pulmonary Vein A-wave Duration)
- PVein S VTI (Pulmonary Vein S-wave Velocity)-time Integral)
- PVein D VTI (Pulmonary Vein D-wave Velocity)-time Integral)
- PVein DecT (Pulmonary Vein Deceleration Time)
- IVC Vel (Insp) (Inferior Vena Cava Inspiration Maximum Velocity)
- IVC Vel (Expir) (Inferior Vena Cava Expiration Maximum Velocity)
- SVC Vel (Insp) (Superior Vena Cava Inspiration Maximum Velocity)
- SVC Vel (Expir) (Superior Vena Cava Expiration Maximum Velocity)
- MR Vmax (Mitral Valve Regurgitation Maximum Velocity)
- MR VTI (Mitral Valve Regurgitation Velocity)-Time Integral)
- MS Vmax (Mitral Valve Stenosis Maximum Velocity)
- dP/dt (Rate of Pressure Change)
- AR Vmax (Aortic Valve Regurgitation Maximum Velocity)
- AR VTI (Aortic Valve Regurgitation Velocity)-Time Integral)
- AR DecT (Aortic Valve Regurgitation Deceleration Time)
- AR PHT (Aortic Valve Regurgitation Pressure Half Time)
- AR Ved (Aortic Valve Regurgitation Velocity) at end-Diastole)
- TR Vmax (Tricuspid Valve Regurgitation Maximum Velocity)
- TR VTI (Tricuspid Valve Regurgitation Velocity)-Time Integral)
- PR Vmax (Pulmonary Valve Regurgitation Maximum Velocity)
- PR VTI (Pulmonary Valve Regurgitation Velocity)-Time Integral)
- PR PHT (Pulmonary Valve Regurgitation Pressure Half Time)
- PR Ved (Pulmonary Valve Regurgitation Velocity) at end-Diastole)
- VSD Vmax (Ventricular Septal Defect Maximum Velocity)
- ASD Vmax (Atrial Septal Defect Maximum Velocity)
- PDA Vel (d) (Patent Ductus Arteriosus Velocity at End-diastole)
- PDA Vel (s) (Patent Ductus Arteriosus Velocity at End-systole)
- Coarc Pre-Duct (Coarctation of Pre-Ductus)
- Coarc Post-Duct (Coarctation of Post-Ductus)
- HR (Heart Rate)
- RAP (Right Atrium Pressure)
- MV E/A (Mitral Valve E-Vel/A-Vel)
- MVA(PHT) (Mitral Valve Orifice Area (PHT))
- TV E/A (Tricuspid Valve E-Vel/A-Vel)
- TVA(PHT) (Tricuspid Valve Orifice Area (PHT))
- Ea(medial) (Mitral Valve medial Early diastolic motion)
- Aa(medial) (Mitral Valve medial Late diastolic motion)
- Sa(medial) (Mitral Valve medial Systolic motion)
- ARa(medial) (Mitral Valve medial Acceleration Rate)
- DRa(medial) (Mitral Valve medial Deceleration Rate)
- Ea(lateral) (Mitral Valve lateral Early diastolic motion)
- Aa(lateral) (Mitral Valve lateral Late diastolic motion)
- Sa(lateral) (Mitral Valve lateral Systolic motion)
- ARa(lateral) (Mitral Valve lateral Acceleration Rate)
- DRa(lateral) (Mitral Valve lateral

- Deceleration Rate)
- Urology
 - Renal L
 - Renal H
 - Renal W
 - Cortex
 - Adrenal L
 - Adrenal H
 - Adrenal W
 - Prostate L
 - Prostate H
 - Prostate W
 - Seminal L
 - Seminal H
 - Seminal W
 - Testis L
 - Testis H
 - Testis W
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
 - Renal Vol
 - Prostate Vol
 - Testis Vol
 - Pre-BL Vol
 - Post-BL Vol
 - Mictur.Vol
- Vascular
 - Normal (D) (Vessel Diameter)
 - Resid (D) (Residual Diameter)
 - Normal (A) (Vessel Area)
 - Resid (A) (Residual Area)
 - CCA IMT (Common Carotid Artery IMT)
 - Bulb IMT (Bulbillate IMT)
 - ICA IMT (Internal Carotid Artery IMT)
 - ECA IMT (External Carotid Artery IMT)
 - 2D-mode Calculation
 - Stenosis D (Stenosis Diameter)
 - Stenosis A (Stenosis Area)
 - 2D-mode Study
 - Volume Flow
 - Stenosis
 - IMT (Intima-Media Thickness)
 - Doppler-mode Measure
 - CCA (Common Carotid Artery)
 - Bulb (Bulbillate)
 - ICA (Internal Carotid Artery)
 - ECA (External Carotid Artery)
 - Vert A (Vertebral Artery)
 - Innom A (Innominate Artery)
 - Subclav A (Subclavian Artery)
 - Axill A (Axillary Artery)
 - Brachial A (Brachial Artery)
 - Ulnar A (Ulnar Artery)
 - Radial A (Radial Artery)
 - Subclav V (Subclavian Vain)
 - Axill V (Axillary Vein)
 - Cephalic V (Cephalic Vein)
 - Basilic V (Basilic Vein)
 - Ulnar V (Ulnar Vein)
 - Radial V (Radial Vein)
 - C.Iliac A (Common Iliac Artery)
 - Ex.Iliac A (External Iliac Artery)
 - CFA (Common Femoral Artery)
 - SFA (Superficial Femoral Artery)
 - Pop A (Popliteal Artery)
 - TP Trunk A (Tibial Peroneal Trunk Artery)
 - Peroneal A (Peroneal Artery)
 - P.Tib A (Posterior Tibial Artery)
 - A.Tib A (Anterior Tibial Artery)
 - Dors.Ped A (Dorsalis Pedis Artery)
 - C.Iliac V (Common Iliac Vein)
 - Ex.Iliac V (External Iliac Vein)
 - Femoral V (Femoral Vein)
 - Saph V (Great Saphenous Vein)
 - Pop V (Popliteal Vein)
 - TP Trunk V (Tibial Peroneal Trunk Vein)
 - Sural V (Sural Vein)
 - Soleal V (Soleal Vein)
 - Peroneal V (Peroneal Vein)
 - P.Tib V (Posterior Tibial Vein)
 - A.Tib V (Anterior Tibial Vein)
 - ACA (Anterior Cerebral Artery)

- MCA (Middle Cerebral Artery)
- PCA (Posterior Cerebral Artery)
- AComA (Ant.communicating br.)
- PComA (Post.communicating br.)
- BA (Basilar Artery)
- IIA (Internal Iliac Artery)
- PFA (Deep Femoral Artery)
- Ba V (Basilar Vein)
- Brachial V (Brachial Vein)
- IIV (Internal Iliac Vein)
- CFV (Common Femoral Vein)
- SFV (Superficial Femoral Vein)
- PFV (Deep Femoral Vein)
- SSV (Small Saphenous Vein)
- ASP (Ankle Systolic Pressure)
- BSP (Brachial Systolic Pressure)
- Small Parts:
 - Thyroid L
 - Thyroid H
 - Thyroid W
 - Isthmus H
 - Testis L (Testicular Length)
 - Testis H (Testicular Height)
 - Testis W (Testicular Width)
 - Mass1 D1-3
 - Mass2 D1-3
 - Mass3 D1-3
 - Thyroid Vol
 - STA (Superior Thyroid Artery)
 - ITA (Inferior Thyroid Artery)
- Orthopedics
 - HIP- α
 - HIP- β
 - HIP-Graf
 - d/D
- Emergency
 - Renal L
 - Renal H
 - Renal W
 - CBD
 - Portal V Diam
 - CHD
 - GB wall th
 - Aorta Diam
 - Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- BPD
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- Ovary Vol
- UT Vol

6.3 Uterus BodyIMT

- Intima-Media Thickness measurement
- Automatic detection of IMT when ROI is set
- Support CCA, ICA, ECA, Bulb IMT
- Near wall and far wall detection
- Angle selectable

6.4 Report

- Specific report template to the application
- Editable value in report
- Images are selectable
- Support anatomical graphics in vascular reports
- Titles are pre-settable in setup
- Export as PDF/RTF format

* Not all measurements are listed in this part;
For more detailed information please refer to User Manual

7 Exam Storage and Management

7.1 Exam storage

- 320GB hard drive. More than 280GB internal hard drive reserved for patient data storage
- Capable of storage up to approximately 130,891 single frames
- Direct digital storage of single frame and cine 2D, color and Doppler.

7.2 Exam management

- iStation dedicated for patient exam management
- Patient exam query/retrieve
- Support review of current and past exam
- New exam, Active exam, Continue exam functions, End exam are available
- Support measurements and calculations on archived exam and images
- Export images as BMP/JPG/TIFF/DCM/AVI/Origin format
- Support backup/send to USB devices, DVD-RW media

8 Connectivity

8.1 Ethernet Network Connection

8.2 USB to serial data output (need a converter cable)

8.3 DICOM 3.0 basic (option)

- Verify (SCU, SCP)
- Print
- Store
- Storage Commitment
- Media Exchange

8.4 DICOM Worklist (option)

8.5 DICOM Query/Retrieve (option)

8.6 DICOM Modality Performed Procedure Step - MPPS (option)

8.7 DICOM OB/GYN structure report (option)

8.8 DICOM Cardiac structure report (option)

8.9 DICOM Vascular structure report (option)

9 Transducers

9.1 Curved array

- C5-2
 - **Application:** Abdomen, OB/GYN
 - **Bandwidth:** 1.5 – 5.5 MHz
 - **Number of Elements:** 128
 - **Field of View (max):** 75°
 - **ExFov:** 95°
 - **Convex Radius:** 50 mm
 - **Physical Footprint:** 76.5 mm x 25.6mm
 - **Footprint:** 64mm x 16.2mm
 - **B-mode imaging Frequencies:** 2.5, 3.5, 5 MHz
 - **THI Frequencies:** 5, 6 MHz
 - **Color Doppler Frequencies:** 2.5, 3 MHz
 - **Biopsy Guide:** Available, multi-angle, reusable
- 6C2 (Micro-convex)
 - **Application:** Abdomen, Neonatal Abdomen, Neonatal Head, Pediatrics
 - **Bandwidth:** 3.0 – 12.0 MHz
 - **Number of Elements:** 128
 - **Field of View (max):** 100°
 - **ExFov:** 120°
 - **Convex Radius:** 15mm
 - **Physical Footprint:** 33.5 mm x 24.8mm
 - **Footprint:** 29mm x 10mm
 - **B-mode imaging Frequencies:** 5, 6.5, 8 MHz
 - **THI Frequencies:** 8 MHz
 - **Color Doppler Frequencies:** 4.4, 5 MHz
 - **Biopsy Guide:** Available, multi-angle, reusable
- V10-4 (Endocavity)
 - **Application:** OB/GYN, Urology
 - **Bandwidth:** 3.6 – 10.0 MHz
 - **Number of Elements:** 128
 - **Field of View (max):** 160°
 - **ExFov:** 180°

- **Convex Radius: 10mm**
- **Footprint: 22.1 mm × 9.1mm**
- **B-mode imaging Frequencies: 5, 6.5, 8 MHz**
- **THI Frequencies: 8, 9 MHz**
- **Color Doppler Frequencies: 4, 5 MHz**
- **Biopsy Guide: Available, single-angle, reusable**
- V10-4B (Endocavity)
 - **Application: OB/GYN, Urology**
 - **Bandwidth: 3.6 – 10.0 MHz**
 - **Number of Elements: 128**
 - **Field of View (max): 160°**
 - **ExFov: 180°**
 - **Convex Radius: 10mm**
 - **Footprint: 22.1 mm × 9.1mm**
 - **B-mode imaging Frequencies: 5, 6.5, 8 MHz**
 - **THI Frequencies: 8, 9 MHz**
 - **Color Doppler Frequencies: 4, 5 MHz**
 - **Biopsy Guide: Available, single-angle, reusable**
- CB10-4 (Biplane)
 - **Application: OB/GYN, Urology**
 - **Bandwidth: 3.0 – 11.0 MHz**
 - **Number of Elements: 128**
 - **Field of View (max): 165°**
 - **ExFov: 180°**
 - **Convex Radius: 10.96mm**
 - **Footprint: 20.1 mm × 9.0mm**
 - **B-mode imaging Frequencies: 5, 6.5, 8 MHz**
 - **THI Frequencies: 8, 9 MHz**
 - **Color Doppler Frequencies: 4, 5 MHz**
 - **Biopsy Guide: Available, single-angle, reusable**

9.2 Volume curved array

- 4CD4
 - Application: OB/GYN, Abdomen
 - Bandwidth: 1.5 – 7.0 MHz
 - Number of Elements: 128
 - Field of View (max): 71°(B) × 70°(sweep)
 - ExFov: 91°(B)
 - Convex Radius: 40mm
 - Physical Footprint: 73mm × 51.6mm
 - Footprint: 51mm × 15.5mm
 - B-mode imaging Frequencies: 2.5, 4.5, 6 MHz
 - THI Frequencies: 5, 6 MHz
 - Color Doppler Frequencies: 2.5, 3 MHz
 - Biopsy Guide: NA

9.3 Linear array

- 7L4A
 - Application: Breast, Thyroid, Peripheral Vascular, Musculoskeletal
 - Bandwidth: 3.5 – 13.0 MHz
 - Number of Elements: 128
 - Field of View (max): 38mm
 - Physical Footprint: 45.7mm × 10.9mm
 - Footprint: 43mm × 10mm
 - Steered Angle: +/-6°(B), +/-12°(Color)
 - B-mode imaging Frequencies: 5, 7.5, 10 MHz
 - THI Frequencies: 8, 10 MHz
 - Color Doppler Frequencies: 5, 5.7 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- L12-4
 - Application: Breast, Thyroid, Peripheral Vascular, Musculoskeletal
 - Bandwidth: 3.0 – 13.0 MHz
 - Number of Elements: 192
 - Field of View (max): 38mm
 - Physical Footprint: 45.7mm × 10.9mm
 - Footprint: 43mm × 10mm
 - Steered Angle: +/-6°(B), +/-20°(Color)
 - B-mode imaging Frequencies: 6, 7.5, 10 MHz
 - THI Frequencies: 10, 11 MHz
 - Color Doppler Frequencies: 5, 5.7 MHz
 - Biopsy Guide: Available, multi-angle,

reusable

- L14-6
 - Application: Musculoskeletal, Thyroid, Breast Peripheral Vascular
 - Bandwidth: 3.5 – 16.0 MHz
 - Number of Elements: 128
 - Field of View (max): 24mm
 - Physical Footprint: 31.6mm x 22.8mm
 - Footprint: 30mm x 8mm
 - Steered Angle: +/-6°(B), +/-20°(Color)
 - B-mode imaging Frequencies: 8, 10, 12 MHz
 - THI Frequencies: 10, 11 MHz
 - Color Doppler Frequencies: 5.7, 6.6 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- L14-6N
 - Application: Small organ, Musculo-skeletal, Nerve, Vascular Orthopedics, Pediatric
 - Bandwidth: 3.5 – 16.0 MHz
 - Number of Elements: 192
 - Field of View (max): 38mm
 - Physical Footprint: 61.0mm x 26.0mm
 - Footprint: 44.2mm x 8.5mm
 - Steered Angle: +/-6°(B), +/-20°(Color)
 - B-mode imaging Frequencies: 8, 10, 12 MHz
 - THI Frequencies: 10, 11 MHz
 - Color Doppler Frequencies: 5.7, 6.6 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- L7-3
 - Application: Peripheral Vascular, Thyroid
 - Bandwidth: 2.0 – 8.0 MHz
 - Number of Elements: 128
 - Field of View (max): 38mm
 - Physical Footprint: 45.7mm x 9.4 Phased array
- 10.9mm
 - Footprint: 43mm x 10mm
 - Steered Angle: +/-6°(B), +/-12°(Color)
 - B-mode imaging Frequencies: 4, 5, 6 MHz
 - THI Frequencies: 6, 7 MHz
 - Color Doppler Frequencies: 3.8, 5 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- 7L5
 - Application: Peripheral Vascular, Breast
 - Bandwidth: 3.0 – 12 MHz
 - Number of Elements: 128
 - Field of View (max): 49mm
 - Physical Footprint: 59.1mm x 12mm
 - Footprint: 56mm x 10mm
 - Steered Angle: +/-5°(B), +/-10°(Color)
 - B-mode imaging Frequencies: 5, 7.5, 10 MHz
 - THI Frequencies: 8, 10 MHz
 - Color Doppler Frequencies: 5, 5.7 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- 7LT4 (Intraoperation)
 - Application: Intraoperative, Small organ, Vascular, Musculo-skeletal, Abdominal, Pediatric
 - Bandwidth: 3.5 – 13.5 MHz
 - Number of Elements: 128
 - Field of View (max): 37.8mm
 - Physical Footprint: 49.5mm x 14.4mm
 - Footprint: 44.9mm x 8.7mm
 - Steered Angle: +/-6°(B), +/-12°(Color)
 - B-mode imaging Frequencies: 5, 7.5, 10 MHz
 - THI Frequencies: 8, 10 MHz
 - Color Doppler Frequencies: 5, 5.7 MHz
 - Biopsy Guide: Available, multi-angle, reusable

- P4-2
 - Application: Adult Cardiac, TCD
 - Bandwidth: 1.3 – 4.5 MHz
 - Number of Elements: 64
 - Field of View (max): 90°
 - Physical Footprint: 25.2mm x 20.6mm
 - Footprint: 23 mm x 15mm
 - B-mode Imaging Frequencies: 2, 2.5, 3 MHz
 - THI Frequencies: 3.2, 3.6 MHz
 - Color Doppler Frequencies: 2, 2.3 MHz
 - Biopsy Guide: Available, multi-angle, reusable
- P7-3
 - Application: Pediatric cardiac, Pediatric abdominal, Cephalic
 - Bandwidth: 2.2 – 8 MHz
 - Number of Elements: 96
 - Field of View (max): 90°
 - Physical Footprint: 34mm x 24.5mm
 - Footprint: 17.4 mm x 12.5mm
 - B-mode Imaging Frequencies: 3.6, 5, 6.6 MHz
 - THI Frequencies: 6, 7 MHz
 - Color Doppler Frequencies: 3.3, 4 MHz
 - Biopsy Guide: N/A

9.5 Pencil Probe

- CW5s
 - Application: Vascular, TCD
 - Bandwidth: 5.0 MHz
 - Number of Elements: 2
 - Biopsy Guide: N/A

10 Peripheral Devices and

Accessories (Option)

- 10.1 Black/white digital video printer
 - SONY UP-D897, MITSUBISHI P93DC
- 10.2 Black/white analog video printer
 - SONY UP-897MD, SONY UP-896CN, MITSUBISHI P93W
- 10.3 Color digital printer

- SONY UP-D23MD, SONY UP-D25MD
- 10.4 Color analog printer
 - SONY UP-20, MITSUBISHI CP910E
- 10.5 Graph/text printer
 - HP OfficeJet J3600 (HP Officejet J3608 All-in-One), HP Color LaserJet CM1015, HP Deskjet1280, HP OfficeJet Pro K5300, HP Photosmart D5368
- 10.6 VCR recorder: Sony SVO-9500MD
- 10.7 DVR recorder: DVO-1000MD
- 10.8 Footswitch
 - USB port: 971-SWNOM (2-pedal)
 - USB port: SP-997-350 (3-pedal)
 - Support User-definable functions (Freeze, Save, Print)
- 10.9 ECG
 - 6-pin, AHA/IEC, for 3-lead wires
 - ECG wave display: on/off
 - Gain: 0-30, 1/step
 - Sweep speed: 1-6, 1/step
 - Support external 12-lead ECG(DC IN)
- 10.10 Barcode reader
 - Laser barcode scanner
 - Model:
 - SYMBOL LS2208
 - SYMBOL DS6707
- 10.11 Wireless adapter
 - Model: D-Link DWA-125 Wireless150 USB adapter
 - Interface: USB 2.0
 - Encryption: WPA, WPA2, WPA2-PSK, WPA-PSK
 - Max transfer speed: 300Mbps
 - Protocols:
 - 802.11g: 54,48,36,24,18,12,9,6 Mbps;
 - 802.11n: up to 300Mbps
- 10.12 Built-in Battery
 - Model: LI341002A
 - Replaceable and rechargeable lithium battery
 - Fully charged battery: normal working condition of more than 2 hours in the default operation mode of the system.
 - Support switching into standby mode

- when exterior power is intermittent
- Full battery lasts more than 24h in standby mode
- Light indicator for standby mode
- Empty battery recharged to full in less than 8h

with the Council Directive 93/42/EEC Concerning Medical Devices, as amended by 2007/47/EC. The number adjacent to the CE marking (0123) is the number of the EU-notified body that certified meeting the requirements of Annex II of the Directive.

11 System Inputs and Outputs

11.1 Video/Audio input

- Video In: 1 port, PAL/NTSC
- S-VideoIn: 1 port, PAL/NTSC
- VGA In: 1 port
- Audio in: 2 port
- Microphone: 1 port

11.2 Video/Audio output

- Video out: 1 ports, PAL/NTSC
- S-Video out: 1 port, PAL/NTSC
- VGA Out: 1 port
- DVI: 1 port
- Audio Out: 2 port

11.3 Physio input

- Support ECG signal
- ECG: 1 port

11.4 Other input/output

- USB: 4 ports
- Ethernet: 1 port
- Remote: 1 port
- RS-232 port: 1 port

12 Safety and Conformance

12.1 Quality standards

- ISO 9001
- ISO 13485

12.2 Design standards

- UL 60601-1
- CSA C22.2 No. 601-1
- EN 60601-1 and IEC 60601-1
- EN 60601-1-1 and IEC 60601-1-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-2-37 and IEC60601-2-37
- EN60601-1-4 and IEC60601-1-4
- EN60601-1-6 and IEC60601-1-6

12.3 CE declaration

DC-T6 system is fully in conformance

NOTICE:

Not all features or specifications described in this document may be available in all probes and/or modes. Mindray reserves the right to make changes in specifications and features shown herein, or discontinue the product at any time without notice or obligation. Contact Mindray Representative for the most current information

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